

EPODOC / EPO

PN - JP11223686 A 19990817
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 TI - ELECTRONIC EQUIPMENT
 IN - MAEZAWA HIDEKAZU
 PA - SEIKO EPSON CORP
 IC - G04G5/00; G01S5/02

EWP / DERVENT

TI - Electronic machine for e.g. navigation by global positioning system - has timer whose internal time is corrected continuously or intermittently during operation using time gap between current GPS time and internal time

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PA - (SHIH) SEIKO EPSON CORP

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AB - JP11223686 NOVELTY - The electronic machine has a timer whose internal time (to) is corrected continuously or intermittently during operation using the time gap (Delta t) between the current GPS time (ty) and the internal time. DETAILED DESCRIPTION - The electronic machine has a GPS unit which receives GPS signal and acquires information about GPS time. The GPS unit calculates the time gap between the current GPS time and the internal time. The elapsed time (T) from the acquisition of information about the previous GPS time (tx) to the acquisition of information about the current GPS time (ty) is calculated. A time correction factor for compressibility (dt), which is equivalent to the time gap per unit time, is computed by taking the ratio of the time gap and elapsed time. The internal time is corrected by using the time correction factor and setting a new internal time.

- USE - For e.g. navigation using GPS.

- ADVANTAGE - Ensures reliability of internal time automatically even when correction of internal time based on GPS time is not performed continuously in order to reduce power consumption. DESCRIPTION OF DRAWING(S) - The figure shows the flowchart of the calculation of the time correction factor. (T) Elapsed time; (dt) Time correction factor for compressibility; (to) Internal time; (tx) Previous GPS time; (ty) Current GPS time; (Delta t) Time gap.

- (Dwg. 1/7)

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TI - ELECTRONIC EQUIPMENT

AB - PROBLEM TO BE SOLVED: To provide a new electronic equipment in a structure capable of automatically keeping an internal time reliable without somewhat correcting a GPS(global positioning system) time to reduce power consumption when the internal time is corrected in accordance with the GPS time.